

# Notice of Allowability

Application No.

10/674,064

Examiner

John Chavis

Applicant(s)

CEBULA ET AL.

Art Unit

2193

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed 1/22/07.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows to comply with 35 USC 101 requirements and to ensure that the amendment is clear (without excess lines that make the changes appear confusing:

1. (Currently Amended) A computer-implemented method for software testing, comprising: analyzing the source code under test to generate ~~a scan file,~~ including a map of the source code under test ~~and~~ or a tree structure for the source code under test; and to generate a scan file of all or a portion of the map or tree structure of the source code under test; generating a stub file ~~for the source code under test~~ for all or a portion of the map or tree structure based on the ~~scan file~~ map or tree structure of the source code under test; generating a driver test script file for all or a portion of the map or tree structure of the source code under test based on the scan file and the stub file; generating a test driver for all or a portion of the map or tree structure of the source code under test based on the driver test script file; and running the test driver on all or a portion of the map or tree structure of the source code under test to generate a results file for summarizing the results of the software testing.

2. (Original) The method of claim 1, wherein said analyzing step is automatically performed by a code scanner configurable by a graphical user interface.

3. (Original) The method of claim 1, wherein the step of generating the stub file is automatically performed by a stub generator configurable by a graphical user interface.

4. (Original) The method of claim 1, wherein the step of generating the driver test script file is automatically performed by a driver script generator configurable by a graphical user interface.

5. (Original) The method of claim 1, wherein the step of generating the test driver is automatically performed in a driver build directory configurable by a graphical user interface.

6. (Original) The method of claim 1, further comprising displaying the results file with a graphical user interface.

7. (Original) The method of claim 1, wherein the map includes a list of executable source code names, package names, and procedure or function names for the package names.

8. (Original) The method of claim 7, further comprising generating the list of executable source code names for the stub file and the source code under test.

9. (Original) The method of claim 7, further comprising generating the tree structure by performing calls until the procedures or function for each of the packages are determined.

10. (Original) The method of claim 1, further comprising providing a graphical user interface for performing the analyzing step, the step of generating the stub file, the step of generating the driver test script file, the step of generating the test driver, and the running step.

11. (Original) The method of claim 10, further comprising employing the graphical user interface for specifying variable and variable type definitions.

12. (Original) The method of claim 10, further comprising employing the graphical user interface for documenting the software testing.

13. (Original) The method of claim 10, further comprising providing a FTP capability via the graphical user interface.

14. (Original) The method of claim 10, further comprising providing multi-language support for the source code under test via the graphical user interface.

15. (Original) The method of claim 10, further comprising providing mixed-language software testing via the graphical user interface.

16. (Original) The method of claim 1, further comprising implementing the method via object-oriented programming.

17. (Original) The method of claim 10, further comprising displaying the scan file, the source code under test, the driver test script file, the test driver, and the results file, via the graphical user interface.

18. (Currently Amended) A system comprising a processor for software testing, comprising: means for analyzing the source code under test to generate a scan file, ~~including~~ a map of the source code under test [and] or a tree structure for the source code under test; and to generate a scan file of all or a portion of the map or tree structure of the source code under test; means for generating a stub file ~~for the source code under test~~ all or a portion of the map or tree structure based on the ~~scan file~~ map or tree structure of the source code under test; means for generating a driver test script file for all or a portion of the map or tree structure of the source code under test based on the scan file and the stub file; means for

generating a test driver for all or a portion of the map or tree structure of the source code under test based on the driver test script file; and means for running the test driver on all or a portion of the map or tree structure the source code under test to generate a results file for summarizing the results of the software testing.

19. (Original) The system of claim 1, wherein said analyzing means is automatically activated by a graphical user interface.

20. (Original) The system of claim 18, wherein the means for generating the stub file is automatically activated by a graphical user interface.

21. (Original) The system of claim 18, wherein the means for generating the driver test script file is automatically activated by a graphical user interface.

22. (Original) The system of claim 18, wherein the means for generating the test driver is automatically activated by a graphical user interface.

23. (Original) The system of claim 18, further comprising means for displaying the results file.

24. (Original) The system of claim 18, wherein the map includes a list of

executable source code names, package names, and procedure or function names for the package names.

25. (Original) The system of claim 24, further comprising means for generating the list of executable source code names for the stub file and the source code under test.

26. (Original) The system of claim 24, further comprising means for generating the tree structure by performing calls until the procedures or function for each of the packages are determined.

27. (Original) The system of claim 18, further comprising means providing a user interface for accessing the analyzing means, the means for generating the stub file, the means for generating the driver test script file, and the means for generating the test driver, and the running means.

28. (Original) The system of claim 27, further comprising means for employing the user interface for specifying variable and variable type definitions.

29. (Original) The system of claim 27, further comprising means for employing the user interface for documenting the software testing.

30. (Original) The system of claim 27, further comprising means for providing a FTP capability via the user interface.

31. (Original) The system of claim 27, further comprising means for providing multi-language support for the source code under test via the user interface.

32. (Original) The system of claim 27, further comprising means for providing mixed-language software testing via the user interface.

33. (Original) The system of claim 18, further comprising means for implementing the system via object-oriented programming.

34. (Original) The system of claim 27, further comprising means for displaying the scan file, the source code under test, the driver test script file, the test driver, and the results file, via the user interface.

35. (Original) The system of claim 27, wherein the user interface includes a graphical user interface.

36. (Original) The system of claim 18, wherein the means for analyzing, the means for generating the stub file, the means for generating the driver test script file, the means for generating the test driver, and the means for running the test



driver comprise devices of a computer system.

37. (Currently Amended) The system of claim 18, wherein the means for analyzing, the means for generating the stub file, the means for generating the driver test script file, the means for generating the test driver, and the means for running the test driver comprise computer-readable instructions stored on a tangible computer readable storage medium.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Chavis whose telephone number is (571) 272-3720. The examiner can normally be reached on M-F, 9:00am-5:30pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2193

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC

A handwritten signature in black ink, appearing to read 'John Chavis'.

John Chavis  
Primary Examiner AU-2193